

[ CLAIMS ]

What is claimed is:

1. A method for dynamically sending device data in a bus  
2 transaction comprising the steps of:  
3 a first device generating a request comprising a plurality of fields  
4 including a device configurable field comprising device configurable data;  
5 said first device issuing the request to a second device;  
6 said second device generating a reply comprising a plurality of fields;  
7 said second device copying the data received in the device  
8 configurable field into a designated field of the plurality of fields of the reply;  
9 said second device issuing the reply to the first device.

1. 2. The method as set forth in claim 1, wherein the designated  
2 field is located at a location in the reply that corresponds to a field location of  
3 the device configurable field of the request.

1. 3. The method as set forth in claim 1, wherein the device  
2 configurable field is used by the first device to store <sup>a</sup>~~an~~ transaction  
3 identification of <sup>a</sup>~~the~~ transaction issued by the first device.

1. 4. The method as set forth in claim 3, further comprising the step  
2 of the first device reading the designated field to determine the  
3 identification of the request the reply corresponds to.

1. 5. A bus system comprising:  
2 a bus

3           a first device coupled to the bus, said first device configured to issue a  
4   request comprising a device configurable field comprising device  
5   configurable data;

6           a second device coupled to the bus and configured to receive the  
7   request and copy the device configurable data into a designated field of a  
8   reply and issue the reply to the first device.

1           6.       The bus system as set forth in claim 5, wherein the designated  
2   field is located at a location in the reply that corresponds to a field location of  
3   the device configurable field of the request.

1           7.       The bus system as set forth in claim 5, wherein the device  
2   configurable field is used by the first device to store <sup>a</sup>~~an~~ transaction  
3   identification of <sup>a</sup>~~the~~ transaction issued by the first device.

1           8.       The bus system as set forth in claim 7, further comprising the  
2   step of the first device reading the designated field to determine the  
3   identification of the request the reply corresponds to.

1           9.       A bus comprising a plurality of bus lines configured to convey  
2   device configurable data from a first device to a second device during  
3   transmission of a request and further configured to convey the device  
4   configurable data from the second device to the first device during  
5   transmission of a reply to the request.

1           10.      The bus as set forth in claim 9, wherein the device configurable  
2   data comprises a transaction identification.